

Memorandum

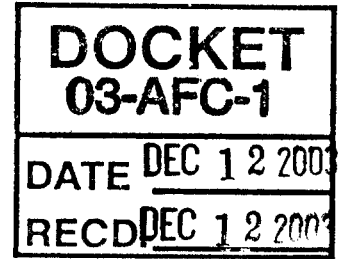
Date : December 12, 2003

Telephone: (916) 651-8835

File: Roseville Energy Park

To: William J. Keese, Chairman
Robert Pernell
Arthur H. Rosenfeld, Ph.D.
James D. Boyd
John L. Geesman

From: California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512



Subject: **ROSEVILLE ENERGY PARK DATA ADEQUACY RECOMMENDATION
(03-AFC-1)**

On October 30, 2003, Roseville Electric filed an Application for Certification (AFC) seeking approval to construct and operate a 160 megawatt (MW), natural gas-fired, combined-cycle electric generating facility. At the December 3, 2003 Business Meeting, the California Energy Commission found that the AFC did not contain sufficient information to constitute a complete application. Staff has reviewed the supplemental information provided by Roseville Electric on December 8, 2003, in response to the Energy Commission's adopted list of data deficiencies. Based on staff's analysis, the AFC, as supplemented, now meets the requirements of California Code of Regulations, Title 20, section 1704 and Appendix B of chapter 5. Staff, therefore, recommends that the Energy Commission find the AFC complete.

Attachment A contains a list of the 11 technical disciplines that were previously found to be inadequate but which are now adequate. Attachment B contains staff's detailed data adequacy worksheets that describe staff's findings for each information requirement in the 11 technical areas.

At the Energy Commission's business meeting on December 17, 2003, I will recommend that the Energy Commission accept the AFC, as supplemented, as complete, pursuant to California Code of Regulations, Title 20, section 1709. I will also recommend that the Energy Commission assign a Committee to oversee the 12-month review process. If you have any questions, please call Bob Eller, the Energy Commission's Project Manager, at (916) 651-8835.

Sincerely,



ROBERT L. THERKELSEN
Executive Director

RLT:BE
Attachments

ATTACHMENT A
OVERVIEW OF ENERGY COMMISSION STAFF'S
DATA ADEQUACY DETERMINATION
Roseville Energy Park
03-AFC-1

TECHNICAL AREA	ATTACHMENT B PAGE NO.	ADEQUATE?
Air Quality	1	Yes
Biological Resources	5	Yes
Cultural Resources	10	Yes
Paleontological Resources	13	Yes
Project Overview	15	Yes
Socioeconomics	19	Yes
Soil Resources	26	Yes
Traffic and Transportation	28	Yes
Transmission System Engineering	31	Yes
Visual Resources	35	Yes
Water Resources	38	Yes

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
Revised Data Adequacy Worksheets**

**Roseville Energy Park
03-AFC-1**

December 12, 2003

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Air Quality**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Joseph M. Loyer
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Chapter 2 et al Chapter 8.1 et al Appendix 8.1 Supplemental Filing Confidential Filing	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	<u>Placer County Air Pollution Control District issued a Letter of Completeness 11/26/03</u>	No Yes	The District is expected to issue a "Letter of Completeness" by 11/26/03
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Chapter 2 Section 2.2.2 Page 2-2	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Chapter 2 Section 2.2.11 Page 2-17 Appendix 8.1-A	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Chapter 2 Section 2.2.8 Page 2-15 Appendix 8.1-B	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	Chapter 8.1 Section 8.4.5.1 Page 8.1-18 to 8.1-22 Appendix 8.1-A,B,C,D	Yes	
Appendix B (g) (8) (F)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Chapter 8.1 Section 8.1.5.1 Page 8.1-18 to 22 Appendix 8.1-A,B,C,D	Yes	

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Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Chapter 8.1 Section 8.1.3 Page 8.1-6 to 9	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Chapter 8.1 Section 8.1.1 Page 8.1-4 Figures 8.1-6a to 6e	Yes	
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)	NA	NA	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Figures 8.1-6a to 6e Met Data located on CD Chapter 8.1 Section 8.1.1 Page 8.1-4 Supplemental Filing for wind rose tables	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:			

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Revision No. **1** Date **December 12, 2003**
 Technical Staff: **Joseph M. Loyer**
 Technical Senior: **Keith Golden**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀)] from construction-related equipment;	Located on CD	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	Located on CD	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	Appendix 8.1-H Page 16 Supplemental Filing	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:			
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	Confidential filing Table 8.1-30 page 8.1-42 District Rule 502	Yes	

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	Confidential Filing	Yes	
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Confidential Filing	Yes	
Appendix B (g) (8) (K)	A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site.	Several maps submitted of various scales, cumulatively evaluated to be sufficient for air quality staff purposes.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.1-31 Page 8.1-44	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.1-7 Page 8.1-10	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.1-31, Page 8.1-44 Section 8.1.4.1 Page 8.1-10 to 18	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.1-7 Page 8.1-10	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 8.1-31 Page 8.1-44	Yes	

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DATA ADEQUACY WORKSHEET

Revision 01 Date December 12, 2003
No.

Technical Area: **Biological Resources**

Project: Roseville Energy Park

Technical Staff: Stuart Itoga

Project Manager: Bob Eller

Docket: 03-AFC-01

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	<p>Existing site conditions: Vol. I, Chapter 1.0, Section 1.6, Subsection 1.6.2, pp. 1-6-1-7, Chapter 8, Section 8.2, Subsections 8.2.1.2, 8.2.1.5, pp 8.2-1, 8.2-2.</p> <p>Construction impacts: (Direct, Indirect): Vol. I, Chapter 8, Section 8.2., Subsections 8.2.2.2, 8.2.2.3, pp 8.2-22-8.2-26. <u>Data Adequacy Supplement, Section 8.2, # 1, pp S-32, 33.</u></p> <p>Operation impacts: (Direct, Indirect): Vol. I, Chapter 8, Section 8.2, Subsection 8.2.2.4, pp 8.2-26-8.2-27.</p> <p>Maintenance impacts: <u>Data Adequacy Supplement, Section 8.2, # 2, pg. S-33, 34.</u></p> <p>Cumulative impacts: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.3, pg. 8.2-28.</p> <p>Measures proposed to mitigate environmental impacts: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.4, pp 8.2-28, 8.2-29. <u>Data Adequacy Supplement, Section 8.2, # 3, ppS-34, 35.</u></p> <p>Effectiveness of mitigation proposals and plans to monitor for effectiveness: Vol. I, Chapter 8, Section 8.2, Subsections 8.2.2.2, 8.2.4 pp 8.2-24, 8.2-29.</p>	<p>Yes</p> <p>No <u>Yes</u></p> <p>No <u>Yes</u></p> <p>No <u>Yes</u></p> <p><u>Yes</u></p> <p>No <u>Yes</u></p> <p>Yes</p>	<p>Provide a discussion of impacts to existing biological resources that could result from construction of the proposed project's transmission line and any proposed alternative transmission lines.</p> <p>Discuss how maintenance activities associated with the proposed project (include linears) could affect biological resources in the area.</p> <p>Propose mitigation measures for construction and maintenance activities associated with the proposed project's transmission line and any proposed alternative transmission lines.</p>

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Project Manager: Bob Eller

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	Regional overview and discussion of biological resources: Vol. I, Chapter 8, Section 8.2, Subsections 8.2.1-8.2.1.8, pp 8.2-1-8.2-16. Maps: Vol. I, Chapter 8, Section 8.2, Figures 8.2-1, 8.2-2.	Yes Yes	
Appendix B (g) (13) (B)	A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.	Discussion of biological resources at site, related facilities and linear facility corridors: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.5, pg. 8.2-2. Map: Vol. I, Chapter 6, Section 6.2, Figure 6.1-1, pg. 6-3, Chapter 8, Section 8.2, Figure 8.2-2, pg. 6-, <u>Data Adequacy Supplement, Figures 8.2-S3a, S3b.</u> List of species observed: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.9, Tables 8.2-3, 8.2-4 pp 8.2-19, 8.2-20. List of potentially occurring species: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.8, Table 8.2-2, pp 8.2-9-8.2-10.	No Yes No Yes Yes Yes	Discuss biological resources along the proposed route for the project's transmission line, including any alternative transmission lines, and habitat types along gas pipeline alternative B1. Include biological resources within the proposed ROW and for a distance of 1000 feet on each side of the proposed linear corridors. Illustrate the proposed route of the project's transmission line on a 1:6,000 scale map. Include any proposed alternate routes. Include locations of biological resources in relation to proposed transmission line facilities. Include proposed locations for transmission line towers.

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Project Manager: Bob Eller

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Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	Description of surveys: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.9, pp 8.2-16-8.2-20. Survey Forms: Vol. II, Appendices 8.2- A, 8.2-D. Names/qualifications: Vol. II, Appendix 8.2-C.	Yes Yes Yes	
Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	Site preparation impacts <u>Data Adequacy Supplement, Section 8.2, # 5, pg. S-36.</u> Cooling tower drift: Vol. I Chapter 7, Section 7.4, Subsection 7.4.1.2, pp 7-8, 7-9, Chapter 8, Section 8.2., Subsections 8.2.2, 8.2.2.4, pp 8.2-26, 8.2-27. Water use/discharge: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.2.4, pp 8.2-26, 8.2-27.	No Yes Yes	Provide a discussion of potential impacts to biological resources caused from site preparation activities (site mobilization, erosion control measures etc.).
Appendix B (g) (13) (E)	A discussion of the following:			
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Measures proposed to avoid and/or reduce any adverse impacts: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.2, pp 8.2-22-8.2-27. <u>Data Adequacy Supplement, Section 8.2, # 6, pp S-36, 37.</u>	No Yes	Propose measures to avoid and/or reduce potential adverse impacts to existing biological resources associated with construction and maintenance of the project's transmission line and any proposed alternative transmission lines.

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Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Proposed mitigation, including proposals for off-site mitigation: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.4, pp 8.2-28, 8.2-29.	Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Educational programs: Vol. I, Chapter 8, Section 8.2, Subsections 8.2.2.3, 8.2.4, pp 8.2-26, 8.2-29.	Yes	
Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Compliance and monitoring programs: <u>Data Adequacy Supplement, Section 8.2, # 7, pg. S-37.</u>	No <u>Yes</u>	Discuss any proposals for compliance and monitoring programs designed to ensure the effectiveness of mitigation measures that would be incorporated into the project.
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project.	Fish and wildlife species of commercial and/or recreational value: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.6, pg. 8.2-2.	Yes	
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:			
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	Federal/State listed ESA species: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.8, pp 8.2-16.	Yes	
Appendix B (g) (13) (H) (ii)	Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations; and	Areas of critical concern: Vol. I, Chapter 8, Section 8.2, Subsections 8.2.1.3, 8.2.1.7, pp 8.2-2.	Yes	
		Species of special concern: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.1.8, pp 8.2-2-8.2-16.	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Protected species/habitats: Vol. I, Chapter 8, Section 8.2, pp	Yes	

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Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	LORS table: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.7, Table 8.2-8, pp 8.2-33-8.2-37.	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Agency jurisdiction table: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.7, Table 8.2.10, pg. 8.2-30.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	LORS conformity discussion: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.4, pp 8.2-28, 8.2-29.	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Agency contacts: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.6, Table 8.2-9, pg. 8.2-30.	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Non-Commission permits: Vol. I, Chapter 8, Section 8.2, Subsection 8.2.7, Table 8.2-8, pp 8.2-33-8.2-37.	Yes	

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Cultural Resources**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
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Revision No. 1 Date December 12, 2003
 Technical Staff: Gary Reinoehl
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 1; 2	Yes	
Appendix B (g) (2) (A)	A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located.	Section 8.3; 8.3.1-8.3.9 (pg. 1-9.)	Yes	
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	Section 8.3: 8.3.9; 8.3.10 (Table 8.3-1); 8.3.11 (Table 8.3-1 cont.); 8.3.12 (Table 8.3-2) <u>and Supplement to Appendix 8.3 (Confidential)</u> .	No <u>Yes</u>	Please provide a cultural resource survey report for the project area.

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Technical Area: **Cultural Resources**

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Appendix B (g) (2) (C)	A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq.	8.3.13 (pg. <u>8.3-13</u>); Appendix 8.3-C; Appendix 8.3-D; Appendix 8.3-E <u>and Supplement to appendix 8.3 (Confidential)</u> .	No <u>Yes</u>	Please provide Appendix 8.3 C, 8.3 D, and 8.3E, (Information and technical reports should be submitted under confidential cover.)
Appendix B (g) (2) (D)	A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project.	8.3.13 (pg. <u>8.3-13</u>); Appendix 8.3-B <u>and AFC Supplement</u> .	No <u>Yes</u>	Please provide a summary of the response or lack of response from Native American representatives.
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	8.3.4 (pg. <u>8.3-20-21</u>) <u>and AFC Supplement</u> .	No <u>Yes</u>	Please provide a summary of proposed educational training to enhance awareness among employees and contractors. Furthermore, please provide a summary of proposed educational training of specific types of archaeological resources that may be encountered during construction at this particular project location.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	8.3.5 (pg. 21-23)	Yes	

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Cultural Resources**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
 Docket: 03-AFC-01

Revision No. 1 Date December 12, 2003
 Technical Staff: Gary Reinoehl
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	8.3.6 (pg. <u>8.3-23-24</u>), Table 8.3-4 (pg.24) <u>and AFC Supplement.</u>	No <u>Yes</u>	Please indicate whether an individual Corp of Engineers 404 permit would be required and if so provide a table that identifies each agency with permit approval jurisdiction.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.3.5 (pg. <u>8.3-21-22</u>) Table 8.3-3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.3-4 (pg. <u>8.3-24</u>) <u>and AFC Supplement.</u>	No <u>Yes</u>	If an individual Corp of Engineers 404 permit would be required, please provide official contact person information.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	8.3.7 (pg. <u>8.3-24</u>) <u>and AFC Supplement.</u>	No <u>Yes</u>	If an individual Corp of Engineers 404 permit would be required, please provide permit approval information from U. S. Army Corps of Engineers.

Adequacy Issue: Adequate **X** Inadequate
 Technical Area: **Paleontological Resources**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Patrick A. Pilling, Ph.D.
 Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.8-1 and 8.8-6 to 8.8-8; Sections 8.8.1.1 and 8.8.2 to 8.8.4	Yes	
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The area may vary depending on the depositional history of the area.	Pages 8.8-1 to 8.8-2; Sections 8.8.1.1 to 8.8.1.2	Yes	
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project.	Pages 8.8-6 to 8.8-8; Sections 8.8.2 to 8.8.3	Yes	
Appendix B (g) (16) (C)	A summary of all literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Pages 8.8-2 to 8.8-3; Section 8.8.1.4	Yes	
Appendix B (g) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Pages 8.8-4 to 8.8-6; Section 8.8.1.6 AFC Supplement December 2003	No Yes	Please provide under confidential cover, a paleontologic resources map at a scale of 1:24000 and any available surveys for paleontologic resources.

Adequacy Issue: Adequate **X** Inadequate
 Technical Area: **Paleontological Resources**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Patrick A. Pilling, Ph.D.
 Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Page 8.8-8; Section 8.8.4	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 8.8-9; Section 8.8.5; Table 8.8-1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pages 8.8-9 to 8.8-10; Section 8.8.5	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.8-9 to 8.8-10; Section 8.8.5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.		N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate **X** Inadequate _____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Project Overview**

Project: Roseville Energy Park

Technical Staff: Bob Eller

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Chapter 8.0	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics.	Chapter 1.0 Chapter 2.0	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Page 2.1, Chapter 2.0	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Page 1-1, Chapter 1.0 <u>Data Adequacy Supplement Figures 1.1- S1a and S1b</u>	<u>No</u> <u>Yes</u>	Provide a map depicting the site and its immediate surroundings.

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Project Overview**

Project: Roseville Energy Park

Technical Staff: Bob Eller

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figures 8.13-8 through 8.13-10; Section 8.13	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix 1 (AFC Vol. II)	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Page 1-5, Chapter 1.0	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Page 1-1, Chapter 1.0	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Page 1-1, Chapter 1.0	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Page 1-1, Chapter 1.0	Yes	
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	AFC Supplement December 2003	No Yes	Maps which meet the criteria contained in Appendix B (b) (1) (A) and show the proposed final location and layout of the Power Plant and all related facilities.

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Project Overview**

Project: Roseville Energy Park

Technical Staff: Bob Eller

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	Figures 2.2-1 through 2.2-3b; Chapter 2.0	Yes	
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Section 2.2; Chapter 2.0	Yes	
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	<u>Data Adequacy Supplement Figures 1.1-S1a and S1b</u>	No <u>Yes</u>	Maps which meet the criteria contained in Appendix B (b) (2) (A)
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	<u>Data Adequacy Supplement Figures 2.1-S1b</u>	No <u>Yes</u>	Color reproductions which meet the criteria specified in Appendix B (b) (2) (B) for the proposed transmission routes and any alternatives.
Appendix B (c)	In a section entitled, "Demand Conformance" provide a discussion explaining how the proposed project conforms with the requirements of Public Resources Code § 25524 or Public Resources Code § 25540.6(a)(5). If the provisions of Public Resources Code § 25523.5 are applicable, explain how the project conforms with the requirements of this section. Additional data adequacy requirements may be contained in the Electricity Report applicable pursuant to Title 20, California Code of Regulations, § 1720.5.		N/A	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Project Overview**
 Project Manager: Bob Eller

Project: Roseville Energy Park
 Docket: 03-AFC-1

Technical Staff: Bob Eller
 Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (d) (1)	A copy of any study or analysis required by the terms of the Commission's Final Decision on the NOI, and a brief summary of the results of the study or analysis.		N/A	
Appendix B (d) (2)	Updates of any significant information which has changed since the Commission's Final Decision on the NOI.		N/A	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Chapter 4.0	Yes	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	<p>8.10.1 Affected Environment, page 8.10-1.</p> <p>8.10.2.3 Construction Impacts, Construction Impacts on Fiscal Resources, page 8.10-10</p> <p>8.10.3 Cumulative Impacts, page 8.10-16.</p> <p>8.10.4 Proposed Mitigation Measures, page 8.10-16.</p> <p>1.1 1.1 Project Overview, pages 1-1 to 2.</p> <p><u>Data Adequacy Supplement 8.10 SOCIOECONOMICS. 1. Planned projects (Appendix B [g][1], pages S-45&46.</u></p>	No <u>Yes</u>	<p>Please estimate the secondary (indirect and induced) income and employment economic impacts for construction and operation of the power plant. Show the income and employment multipliers e.g., Type I, Type II, or Type III as appropriate and how they are calculated. Delineate and explain the rationale for the region used in the economic impact estimates. To the extent possible for these and all economic estimates, indicate the year all economic estimates were made.</p> <p>Please estimate the cumulative impacts by discussing the projects, workforce numbers and dates of construction and operation. Also, indicate if any major projects are planned near the power plant, associated pipelines (e.g. water) or electrical transmission lines. Please provide information on other major projects planned nearby the power plant site or associated pipelines (water, natural gas, and sewer) or transmission lines, as well as any construction overlap with other power plant projects in the study area (e.g., Cosumnes Power Project). This would include data for the construction workforce by month.</p>
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:			
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	<p>8.10.1.3 Employment and the Economy, pages 8.10-2 to 8.10-14.</p> <p>Table 8.10-3 Employment by industry in Placer</p>	No <u>Yes</u>	Please provide an estimate of projected revenue.

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		<p>County, page 8.10-3.</p> <p>8.10.1.7 Fiscal Resources, pages 8.10-6 to 8.10-7.</p> <p>Table 8.10-7 City of Roseville General Fund tax revenue (\$000), page 8.10-7.</p> <p>Table 8.10-13 Agency Contacts, page 8.10-19.</p>		
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	<p>8.10.1.1 Population, page 8.10-1.</p> <p>Table 8.10-1 Estimated population growth in the project area and statewide. Page 8.10-1.</p> <p>8.10.2.4 Operation Impacts, Environmental Justice, pages 8.10-12 to 8.10-16.</p> <p>Table 8.10-10 Race and Hispanic origin within 6-miles of the REP site in 2000 with Placer County and California Statistics for comparison, page 8.10-13.</p> <p>Table 8.10-11. Ethnic characteristics of population, six-mile radius of project site, year 2000 Census, page 8.10-14.</p> <p>Figure 8.10-1. Roseville</p>	Yes	

Adequacy Issue: Adequate ☒ Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		Energy Park, Minority Percentage by Census Tract Placer, Sacramento, and Sutter, CA,, page 8.10-15.		
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	8.10.1.3 Employment and the Economy, pages 8.10-2 to 8.10-3. Table 8.10-4, page 8.10-3. <u>Data Adequacy Supplement 8.10 SOCIOECONOMICS, 2. Unemployment Rates (Appendix B [g][7][A][iii], pages S-46&47.</u>	<u>No</u> <u>Yes</u>	Please provide estimates of projected unemployment rates in the project area.
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	8.10.2.3 Construction Impacts, Construction Workforce, page 8.10-8. Table 8.10-8. Construction personnel by month (months after Notice to Proceed), page 8.10-9.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	8.10.1.2 Housing, Housing Availability, Prices and Rentals, page 8.10-2. <u>Data Adequacy Supplement 8.10 SOCIOECONOMICS, 3 Motel and hotel vacancy (Appendix B [g][7][A][v], page S-47.</u>	<u>No</u> <u>Yes</u>	Please provide the vacancy rate for the City of Roseville's nine motels and hotels with approximately 1,112 rooms.

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	8.10.1.4 Education, page 8.10-5. 8.10.1.5 Public Services, pages 8.10-5 to 8.10-6.	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			
I	The number of workers to be employed each month by craft during construction and operation;	8.10.2.3 Construction Impacts, Construction Workforce, page 8.10-8. Table 8.10-8. Construction personnel craft by month (months after Notice to Proceed), page 8.10-9.	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	8.12.2.1 Construction Phase Impacts, Power Plant Site, pages 8.12-11 to 8.12-14. Table 8.12-4 Trip generation summary, construction phase, page 8.12-11. 8.12.2.2 Operation Phase Impacts, pages 8.12-16 to 17.	No Yes	Please provide a numerical estimate and economic rationale for the number of non-local construction and operations workers and the analysis/assumptions on how they and their families (if appropriate) will be distributed to the affected local communities and counties in the study area.

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		Data Adequacy Supplement 8.10 SOCIOECONOMICS. 4. Percentage of commuting workers (Appendix B [g](7)(B)[iii]. page S-47.		
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	8.10.2.3 Construction Impacts, Construction Impacts on Population, Page 8.10-8.	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	8.10.2.3 Construction Impacts, Construction Impacts on Housing, page 8.10-8. 8.10.2.4 Operation Impacts, Operational Impacts on Housing, page 8.10-11.	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	8.10.2.4 Operation Impacts, Operation Impacts on Education, Operation Impacts on Public Services, Operation Impacts on Utilities, pages 8.10-11 to 12.	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	8.10.1.7 Fiscal Resources, page 8.10-7.	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	8.10.2.3 Construction Impacts, Construction	Yes	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

Technical Staff: Dr. Joseph Diamond

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Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		Impacts on Fiscal Resources, page 8.10-10. 8.10.2.4 Operation Impacts, Operation Impacts on Employment and the Economy, page 8.10-11.		
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and	8.10.2.3 Construction Impacts, Construction Impacts on Fiscal Resources, page 8.10-1. 8.10.2.4 8.10.2.4 Operation Impacts, Operation Impacts on Employment and the Economy, page 8.10-11. <u>Data Adequacy Supplement 8.10 SOCIOECONOMICS, 5. Locally purchased materials (Appendix B [g][7][B][viii], pages S-47&48.</u>	No <u>Yes</u>	Please provide a numerical estimate for locally purchased materials (and supplies) for the operation of the project. Please provide an estimate of the expenditures for locally purchased materials for the construction and operation phases of the project.
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	8.10.2.3 8.10.2.3 Construction Impacts, Construction Impacts on Fiscal Resources, page 8.10-10. <u>Data Adequacy Supplement 8.10 SOCIOECONOMICS, 6. Capital costs and tax</u>	No <u>Yes</u>	Please provide an estimate of the capital costs (plant and equipment) of the REP Project. Also, provide (sales and use) tax revenues from the operation of the project.

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Socioeconomics**

Project: Roseville Energy Park (REP) Project

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Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		<u>revenues (Appendix B [g][7][B][ix], page S-48.</u>		
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	8.10.5 Applicable Laws, Ordinances, Regulations and Standards (LORS)., page 8.10-16 to 19. Table 8.10-12. Laws, ordinances, regulations and standards, page 8.10-17.	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Same as above.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.10.4 Proposed Mitigation Measures, Page 8.10-16.	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	8.10.5.4 Involved Agencies and Agency Contacts, Page 8.10-19. Table 8.10-13 Agency Contacts, Page 8.10-19.	Yes	
Appendix (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	8.10.6 Permits Required and Schedule, page 8.10-19.	N/A	

Adequacy Issue Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area **Soils**
Project Manager Bob Eller

Project Roseville Energy Park
Docket 03-AFC-1

Technical Staff Richard Latteri
Technical Senior Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 8.11.1 – 8.11-4	<u>Yes</u>	
Appendix B (g) (15) (A)	A map at a scale of 124,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include	Section 8.11.1 Figures 8.11-1 & 8.6-3	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Table 8.11-2	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system.	Section 8.11.2 Table 8.11-2	Yes	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include	Sections 8.11.2 & .2.2	Yes	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	Section 8.11.2.1	Yes	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	<u>REP Data Adequacy Supplement Dec. 2003</u>	No <u>Yes</u>	<u>Please provide an assessment of power plant emissions on surrounding soil-vegetation systems</u>
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 8.11.5 Table 8.11-3	Yes	

Adequacy Issue Adequate **X** Inadequate _____
 Technical Area **Soils**
 Project Manager Bob Eller

DATA ADEQUACY WORKSHEET

Project Roseville Energy Park
 Docket 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff Richard Latteri
 Technical Senior Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 8.11.5 Table 8.11-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sections 8.11.5 – 8.11.7 Table 8.11-3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 8.11.6 Table 8.11-5	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.11.7 Table 8.11-3	Yes	

2 Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Traffic and Transportation** _____
 Project Manager: **Bob Eller** _____

DATA ADEQUACY WORKSHEET

Project: **Roseville Energy Park** _____
 Docket: **03-AFC-1** _____

Revision No. **1** _____ Date **December 12, 2003** _____
 Technical Staff: **James Adams** _____
 Technical Senior: **Eileen Allen** _____

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC pgs. 8.12-1 through 12-21 Sections 8.12.1 through 12.7	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Figure 8.12-1 Pgs. 8.12-1 & 2 Section 8.12.1.1	Yes	
Appendix B (g) (5) (B)	An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines, including light rail, bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Figure 8.12-2	Yes	
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	Pgs. 8.12-4 through 7 Sections 8.12.1.2 & 1.3	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Table 8.12-3 Pg. 8.12-8 Section 8.12.1.4	Yes	
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Table 8.12-3, Pg. 8.12-8, Pgs. 8.12-8 through 12-16, Table 8.12-5, Pg. 8.12-12 Sections 8.12.1.4, 12.2.1 & 2	Yes	
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	Pgs. 8.12-7 and 12-9 Sections 8.12.1.4	Yes	
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Pgs. 8.12-11 through 12-14 Section 8.12.2.1 AFC Supplement December 2003	<u>Yes</u> No	Please provide estimated percentage of current traffic flows for passenger vehicles and trucks.

2 Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Traffic and Transportation** _____
 Project Manager: **Bob Eller** _____

DATA ADEQUACY WORKSHEET

Project: **Roseville Energy Park** _____
 Docket: **03-AFC-1** _____

Revision No. **1** _____ Date **December 12, 2003** _____
 Technical Staff: **James Adams** _____
 Technical Senior: **Eileen Allen** _____

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.	Pg. 8.12-9 Section 8.12.1.4	Yes	
Appendix B (g) (5) (C)	A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000.	Pgs 8.12-9 through 12-11 Section 8.12.1.4 & 8.12.2 Figure 8.12-2	Yes	
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified. Include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	Pgs. 8.12-11 through 12-18 Tables 8.12-4 & 5 Sections 8.12..2.1 & 2.2	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Pgs. 8.12-14 & 17 Table 8.12-7 Sections 8.12.2.1 & 2.2 2	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.12-8 Pg. 8.12-9 Section 8.12.5	Yes	

2 Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Traffic and Transportation** _____
 Project Manager: **Bob Eller** _____

DATA ADEQUACY WORKSHEET

Project: **Roseville Energy Park** _____
 Docket: **03-AFC-1** _____

Revision No. **1** _____ Date **December 12, 2003** _____
 Technical Staff: **James Adams** _____
 Technical Senior: **Eileen Allen** _____

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.12-8 Pg. 8.12-9 Section 8.12.5	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.12-8 Pg. 8.12-19 Section 8.12.5.1,2,3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.12-8 Pg. 8.12-19 Section 8.12.5	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pg. 8.12-21 Table 8.12-9 Section 8.12.7	Yes	

Adequacy Issue: Adequate **X** Inadequate
 Technical Area: **Transmission System Eng.**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Laiping Ng
 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 1, P 1-1 Section 1.6.3 P 1-7 Section 2 P 2-1 <u>Supplement</u> <u>Section 6.0</u> <u>Page S-6</u>	No <u>Yes</u>	If the 230 kV interconnection to Western's Fiddymont substation is proposed for licensing, please provide the Interconnection Study information identified on page 2 of this Data Adequacy Worksheet. If the 60 kV configuration was selected, discuss the basis for the selection.
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.		N/A	

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Transmission System Eng.** _____
 Project Manager: Bob Eller _____

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Laiping Ng
 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	Section 6, P 6-1 Figures 6.1-1 to 6.1-4 Appendix 6-A; Figures 2-11 <u>Supplement</u> <u>Section 6.0</u> <u>Page S-7, S-8, S-10</u> <u>through S-18</u> <u>Figure 1 through Figure 11</u>	No <u>Yes</u>	Please provide the followings: a. Identify major assumptions in the base cases including the Commission approved new generation projects and generation queue. b. Please clarify the year(s) of base case(s) used for the N-0 overload(s). c. Provide short circuit studies (Optional- Data requests will follow). d. Analyze the system for Transient Stability and Post-transient voltage conditions under critical N-1 and N-2 contingencies, and provide related plots, switching data and a list for voltage violations in the studies (Optional- Data requests will follow). e. Identify the reliability and planning criteria utilized to determine the criteria violations. f. Provide a list of contingencies evaluated for each study. g. List mitigation measures considered for the post project overloads (required) and those selected (optional- Data Requests will follow). h. Provide power flow diagrams (MW, % loading & P. U. voltage) for post project overloads. Verify that figures 2 through 11 are under N-0 conditions. i. Provide electronic copies of *.sav and *.drw PSLF files (optional- Data Requests will follow). j. If the 230 kV connection is proposed for licensing, please provide an electrical one-line diagram for the Fiddymont substation.

Adequacy Issue: Adequate **X** Inadequate
 Technical Area: **Transmission System Eng.**
 Project Manager: Bob Eller

DATA ADEQUACY WORKSHEET

Project: Roseville Energy Park
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Revision No. 1 Date December 12, 2003
 Technical Staff: Laiping Ng
 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Section 6 P 6-1 Figure 6.1-1 <u>Supplement Section 6.0</u> <u>Page S-6, S-8</u>	No <u>Yes</u>	If the 230 kV interconnection to Western's Fiddymont substation is proposed for licensing, please provide a description of the route and additional transmission facilities. If the 60 kV configuration was selected discuss the rationale.
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Section 6 P 6-1	Yes	
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.			See Transmission Line Safety and Nuisance
Appendix B (g) (18) (C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.			See Transmission Line Safety and Nuisance
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;			See Transmission Line Safety and Nuisance

Adequacy Issue: Adequate **X** Inadequate
 Technical Area: **Transmission System Eng.**
 Project Manager: Bob Eller

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Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Laiping Ng
 Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 6.4.1 – 6.4.2 P 6-10	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).		N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.		N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2003

Technical Area: **Visual Resources**

Project: Roseville Energy Park

Technical Staff: Eric Knight

Project Manager: Bob Eller

Docket: 03-AFC-1

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.13-1 – 8.13-16; Sections 8.13.1 – 8.13.4 <u>Data Adequacy Supplement Page S-56</u>	<u>NoYes</u>	Without substantiating the statement, the AFC on page 8.13-15 concludes: "Though the REP and PGWWTP increases the industrial character of the area, the two do not cause impacts that are individually less than significant but cumulatively significant." Please discuss why the REP, in combination with existing projects, would not cause significant cumulative visual impacts.
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include:	Pages 8.13-1 – 8.13-2; Section 8.13.1	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	Figure 8.13-1 and Figure 8.13-2 <u>Data Adequacy Supplement 8.13-S-1</u>	<u>NoYes</u>	Please rescale Figure 8.13-1 at a scale of 1:24,000 (one inch equals 2,000 feet). Please also add to the legend what is meant by the undesignated (no hatch marks) areas within the "site buffer" zones on the Project Visibility map.
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and		N/A	
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	Pages 8.13-1 – 8.13-2; Section 8.13.1	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Pages 8.13-5 – 8.13-6; Section 8.13.1.3	Yes	
Appendix B (g) (6) (C)	After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river.	Pages 8.13-2 – 8.13-3; Section 8.13.1.2	Yes	

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Visual Resources**
 Project Manager: Bob Eller

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Project: Roseville Energy Park
 Docket: 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff: Eric Knight
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Pages 8.13-8 – 8.13-10; Section 8.13.2.3	Yes	
Appendix B (g) (6) (E)	Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project.	Figures 8.13-7a – 8.13-8b	Yes	
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	Pages 8.13-12 – 8.13-16; Section 8.13.2.4 <u>Data Adequacy Supplement Page S-57</u>	No Yes	Without supporting documentation the AFC (page 8.13-13) claims: "It is likely that visible plumes will not be seen emanating from REP cooling towers under most circumstances." Staff will perform computer modeling to predict the frequency and size of the plumes from cooling tower and exhaust stacks. The discussion does not state what the visual impact would be of the anticipated plumes. Please discuss the visual impacts of the project's plumes on the existing setting. As part of the impact discussion, please discuss whether there are existing sources of plumes in the project viewshed area.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.13-5	Yes	

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Visual Resources**
 Project Manager: **Bob Eller**

DATA ADEQUACY WORKSHEET

Project: **Roseville Energy Park**
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Revision No. **1** Date **December 12, 2003**
 Technical Staff: **Eric Knight**
 Technical Senior: **Dale Edwards**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 8.13-5	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.13-18 – 8.13-22; Section 8.13.5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.13-5	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue Adequate **X** Inadequate _____
 Technical Area **Water Resources**
 Project Manager Bob Eller

DATA ADEQUACY WORKSHEET

Project Roseville Energy Park
 Docket 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff Richard Latteri
 Technical Senior Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 7.2 – 7.4 Sections 8.15.1 – 8.15.5	<u>Yes</u>	
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for	_____	_____	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	Sections 7.2 – 7.4	Yes	
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	Sections 8.15.2.4 & 2.5 <u>REP Data Adequacy Comments – Dec. 2003</u>	<u>No Yes</u>	<u>Please provide a site map showing general topography before and after construction and the location of all pipelines, transmission line and the outfall location of the discharge line.</u>
Appendix B (g) (14) (B)	A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 124,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project	_____	_____	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Sections 8.15.1.2 & 2.6 Figure 8.15-1&2, Table 8.15-2	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Section 8.15.1.3 Figure 8.15-3	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Section 8.15.1.3 Figure 8.15-3	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include	_____	_____	
Appendix B (g) (14) (C) (i)	Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	Sections 7.1 & 8.15.2.2 Table 8.15-3	Yes	

Adequacy Issue Adequate **X** Inadequate _____
 Technical Area **Water Resources**
 Project Manager Bob Eller

DATA ADEQUACY WORKSHEET

Project Roseville Energy Park
 Docket 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff Richard Latteri
 Technical Senior Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Table 7.2-1, Table 7.4-1	Yes	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	Sections 7.1 – 7.4 Sections 8.15.2.2 & .2.3 REP Data Adequacy Comments – Dec. 2003	No Yes	Please provide information in tabular format on the maximum daily use (gpd/mgy) for construction of all REP elements including the natural gas lines & transmission lines.
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	Sections 7.1 – 7.4 Figures 7.1-1 – 7.1-4 Appendix Figures 7-B1&2	Yes	
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including	_____	_____	
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Sections 8.15.1.1, 8.15.1.3, 8.15.2.5 Figure 8.15-3	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	Sections 7.4.3 & 8.15.2.4 Appendixes 7-B & 7-C	Yes	
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include	_____	_____	
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	Sections 8.15.1.4, 8.15.2, 8.15.2.6 Appendix 7-A	Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	Sections 8.15.2.3, 8.15.2.6, 8.15.4	Yes	
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	Section 8.15.1.3 Figure 8.15-3	Yes	

Adequacy Issue Adequate **X** Inadequate _____
 Technical Area **Water Resources**
 Project Manager **Bob Eller**

DATA ADEQUACY WORKSHEET

Project Roseville Energy Park
 Docket 03-AFC-1

Revision No. 1 Date December 12, 2003
 Technical Staff Richard Latteri
 Technical Senior Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 8.15.5 Table 8.15-5	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 8.15.7 Table 8.15-8	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sections 8.15.2.7 & 8.15.5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.15-8	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.15.7 Table 8.15-8	Yes	